

ABSTRACT OF THE DISCLOSURE

The present invention provides a virtual-haptic environment that can be used to advantage to simulate and teach surgical procedures. Computer haptics simulates human sense of touch is provides with visual stereoscopy that simulates our natural depth perception and feeling of touch. Integration of these two senses enhances sense of realism. Thus by coupling force-feedback (or haptic) devices with a stereoscopic display, results in the illusion of being "inside" a virtual world, by being able to "see" and "touch and feel" 3D virtual environment. The computer based (on a PC using NT operating system) present invention provides an inexpensive, easy-to-use technique for generating a stereoscopic-haptic environment that provides a realistic virtual touch and see environment and dynamically adding haptic characteristics.